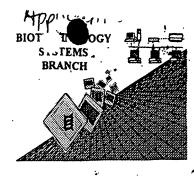
## RAW SEQUENCE LISTING ERROR REPORT



E Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer adable form:

Application Serial Number:

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/479608
ATTN: NEW RULES CASE	s: Please disregard english "Alpha" Headers, which were inserted by Pto s
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)  Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

SEQUENCE LISTING

OIPE

PATENT APPLICATION: US/09/479,608

Input Set : A:\35918.txt

Output Set: N:\CRF3\08092001\1479608.raw

DATE: 08/09/2001 RECEIVEL DEC 0 6 2001 TECH CENTER 1600/2900

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5 <110> APPLICANT: Drmanac, R.
         Drmanac, S.
 6
                                                                 Does Not Comply
         Kita, D.
 7
                                                            Corrected Diskette Needed
 8
         Cooke, C.
 9
         Xu, C.
11 <120> TITLE OF INVENTION: ENHANCED SEQUENCING BY HYBRIDIZATION USING POOLS OF PROBES
13 <130> FILE REFERENCE: 28110/35918
15 <140> CURRENT APPLICATION NUMBER: US 09/479,608
16 <141> CURRENT FILING DATE: 2000-01-06
18 <150> PRIOR APPLICATION NUMBER: US 60/115,284
19 <151> PRIOR FILING DATE: 1999-01-06
21 <160> NUMBER OF SEQ ID NOS: 71
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33 <400> SEQUENCE: 1
                                                                              10
34 aaaaaaaaa
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 10
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
43 <223> OTHER INFORMATION: Description of artificial sequence required 45 <400> SEQUENCE: 2
46 acacacacac
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 20
50 <212> TYPE: DNA
54 <223> OTHER INFORMATION: description of writing sequence required
56 <400> SEQUENCE: 3
57 atctatatat assets
57 atctgtgtct gaagtagtcc
59 <210> SEQ ID NO: 4
60 <211> LENGTH: 20
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION:
67 <400> SEQUENCE: 4
                                                                              20
68 atctctggct gaagtagtcc
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 43
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 08/09/2001 PATENT APPLICATION: US/09/479,608 TIME: 13:18:12

Input Set : A:\35918.txt

Output Set: N:\CRF3\08092001\1479608.raw

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  73 <213> ORGANISM: Artificial Sequence
  75 <220> FEATURE:
LENGTH: 43

85 <212> TYPE: DNA

86 <213> ORGANISM: Artificial Sequence — Field 27

10: 6

21: LENGTH: 43

23: LENGTH: 43

24: LENGTH: 43

25: LENGTH: 43

26: LENGTH: 43

27: LENGTH: 43

28: LENGTH: 43

29: LENGTH: 43

20: LENGTH: 43

20: LENGTH: 43

21: LENGTH: 43

22: LENGTH: 43

23: LENGTH: 43

24: LENGTH: 43

25: LENGTH: 43

26: LENGTH: 43

27: LENGTH: 43

28: LENGTH: 43

29: LENGTH: 43

20: LENGTH: 43

20: LENGTH: 43

21: LENGTH: 43

22: LENGTH: 43

23: LENGTH: 43

24: LENGTH: 43

25: LENGTH: 43

26: LENGTH: 43

26: LENGTH: 43

27: LENGTH: 43

28: LENGTH: 43

29: LENGTH: 43

20: 
  76 <221> NAME/KEY: misc_feature
  94 bbbbbbattt gbbbacactb bbbgtttcbb bbbgcacgbb bbb
                                                                                                                                                                                                                                43
  96 <210> SEQ ID NO: 7
  97 <211> LENGTH: 10
  98 <212> TYPE: DNA
  99 <213> ORGANISM: Artificial Sequence
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION:
 104 <400> SEQUENCE: 7
 105 ggtctcccca
                                                                                                                                                                                                                                  10
 107 <210> SEQ ID NO: 8
 108 <211> LENGTH: 10
 109 <212> TYPE: DNA
 110 <213> ORGANISM: Artificial Sequence
 112 <220> FEATURE:
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 115 <400> SEQUENCE: 8
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 116 gtctccccaa
·118 <210> SEQ ID NO: 9
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 120 <212> TYPE: DNA
 121 <213> ORGANISM: Artificial Sequence
 124 <220> FEATURE:
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 128 tctccccaag
 130 <210> SEQ ID NO: 10
 131 <211> LENGTH: 10
 132 <212> TYPE: DNA
 133 <213> ORGANISM: Artificial Sequence
 135 <220> FEATURE:
 136 <223> OTHER INFORMATION:
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/479,608

DATE: 08/09/2001 TIME: 13:18:12

Input Set : A:\35918.txt
Output Set: N:\CRF3\08092001\I479608.raw

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	etececaagg	10
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147	<223> OTHER INFORMATION:	
149	<400> SEQUENCE: 11	
150	tccccaaggc	10
	<210> SEQ ID NO: 12	
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155	<213> ORGANISM: Artificial Sequence	
157	<220> FEATURE:	
158	<223> OTHER INFORMATION:	
160	<400> SEQUENCE: 12	
161	ccccaaggcg	10
163	<210> SEQ ID NO: 13	
164	<211> LENGTH: 10 \ 223	
165	<212> TYPE: DNA	
166	<213> ORGANISM: Artificial Sequence $V^{\mathcal{C}}$	
168	<220> FEATURE:	
169	<223> OTHER INFORMATION:	•
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	<210> SEQ ID NO: 14	
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194	caaggcgcac	10
-	<210> SEQ ID NO: 16	
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	<212> TYPE: DNA	
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	<220> FEATURE:	
	<223> OTHER INFORMATION:	
	<400> SEQUENCE: 16	
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# RAW SEQUENCE LISTING DATE: 08/09/2001 PATENT APPLICATION: US/09/479,608 TIME: 13:18:12

Input Set : A:\35918.txt

Output Set: N:\CRF3\08092001\I479608.raw

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 215 <223> OTHER INFORMATION:
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  218 aggtctcccc
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 230 ggtctcccca
 233 <210> SEQ ID NO: 19
 234 <211> LENGTH: 10
 235 <212> TYPE: DNA
 236 <213> ORGANISM: Artificial Sequence
 238 <220> FEATURE:
 239 <223> OTHER INFORMATION:
 241 <400> SEQUENCE: 19
 242 gtctccccaa
                                                                              10
 244 <210> SEQ ID NO: 20
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  246 <212> TYPE: DNA
  247 <213> ORGANISM: Artificial Sequence
  249 <220> FEATURE:
 250 <223> OTHER INFORMATION:
 252 <400> SEQUENCE: 20
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- 253 tetececaag
 255 <210> SEQ ID NO: 21
 256 <211> LENGTH: 10
 -257 <212> TYPE: DNA
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 260 <220> FEATURE:
 261 <223> OTHER INFORMATION:
 263 <400> SEQUENCE: 21
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 264 ctccccaagg
 266 <210> SEQ ID NO: 22
 267 <211> LENGTH: 10
 268 <212> TYPE: DNA
 269 <213> ORGANISM: Artificial Sequence
 271 <220> FEATURE:
 272 <223> OTHER INFORMATION:
 274 <400> SEQUENCE: 22
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 275 tccccaaggc
 277 <210> SEQ ID NO: 23
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### RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/479,608 TIME: 13:18:12

Input Set : A:\35918.txt

Output Set: N:\CRF3\08092001\I479608.raw

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 280 <213> ORGANISM: Artificial Sequence
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 283 <223> OTHER INFORMATION:
 285 <400> SEQUENCE: 23
 286 ccccaaggcg
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 288 <210> SEQ ID NO: 24
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 290 <212> TYPE: DNA
 291 <213> ORGANISM: Artificial Sequence
 293 <220> FEATURE:
 294 <223> OTHER INFORMATION:
 296 <400> SEQUENCE: 24
 297 cccaaggcgc
                                                                              10
 299 <210> SEQ ID NO: 25
 300 <211> LENGTH: 10
 301 <212> TYPE: DNA
 302 <213> ORGANISM: Artificial Sequences
 304 <220> FEATURE:
 305 <223> OTHER INFORMATION:
 308 <400> SEQUENCE: 25
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 309 ccaaggcgca
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 313 <212> TYPE: DNA
 314 <213> ORGANISM: Artificial Sequence
 316 <220> FEATURE:
 317 <223> OTHER INFORMATION:
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 320 caaggcgcac
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- 322 <210> SEQ ID NO: 27
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 327 <220> FEATURE:
 328 <223> OTHER INFORMATION:
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 341 <400> SEQUENCE: 28
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 344 <210> SEQ ID NO: 29
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/479,608

DATE: 08/09/2001

TIME: 13:18:13

Input Set : A:\35918.txt

Output Set: N:\CRF3\08092001\1479608.raw